PATENT APPLICATION

Title: Use of comb-structured bead-form polymers and resulting

compositions

Inventors: Emmanuel VILLARD

Horacio NARANJO

Pierre LYOT

Applicants: SNF SAS

ABSTRACT

The present invention relates to compositions including organic and/or inorganic fillers and at least one comb-structured bead-from polymer. The bead-form polymer has:

- an apparent specific gravity higher than 0.5 and preferably higher than 0.7,

a spherical shape and physical properties such as greater flowability, a better
particle size distribution whereby a high fine particle content is averted, and a
lower specific surface area whereby the moisture regain rate is lowered and
caking is reduced

as a result of which an overall improvement in the use conditions is achieved when the polymer is used as a plasticizer, a superplasticizer or a dispersing agent, in comparison with the conditions observed during the use of the same materials marketed in solid form (e.g. as a fine powder prepared by spray drying), particularly by virtue of the very fast availability of the polymer in the medium.

Use of comb-structured bead-form polymers as:

 plasticizers, superplasticizers, water reducers and high-reduction water reducers in compositions that include a hydraulic binder, e.g. concrete, mortar, slag, slurry and gypsum,

and also as dispersing agents for organic and/or inorganic fillers, for example,
 but not exclusively, in compositions such as paints, coatings and detergent,
 softening or cosmetic compositions.